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Kawasaki Robotics website
<https://kawasakirobotics.com/>



Kawasaki Robotics brand site XYZ
<https://robotics.kawasaki.com/ja1/xyz/en/>



Kawasaki Robostage (showroom)
<https://robotics.kawasaki.com/ja1/robostage/en.html>



Kawasaki Robot

Medical & Pharmaceutical Robots

Small-to-medium robots
up to 80kg payload

Large robots
up to 300kg payload

Extra large robots
up to 1,500kg payload

Explosion-proof painting robots

Sealing robots

Arc welding robots

Palletizing robots

Medical & pharmaceutical robots

Delta Robots

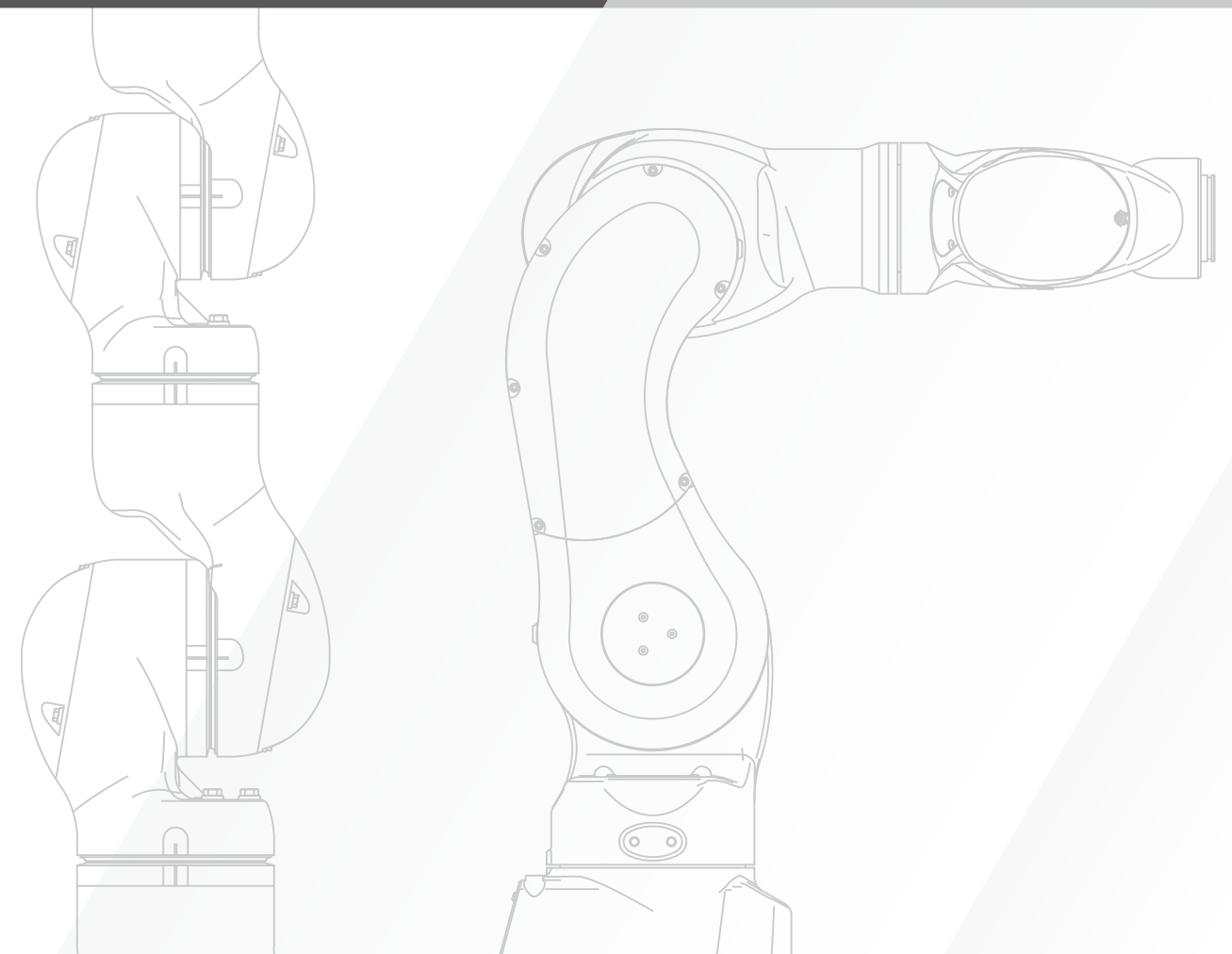
Wafer transfer robots

Collaborative robots



CAUTIONS TO BE TAKEN TO ENSURE SAFETY

- For those persons involved with the operation / service of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. They should carefully read the Manuals and other related safety documents.
- Products described in this catalogue are general industrial robots. Therefore, if a customer wishes to use the Robot for special purposes, which might endanger operators or if the Robot has any problems, please contact us. We will be pleased to help you.
- Be careful as Photographs illustrated in this catalogue are frequently taken after removing safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.



Medical and Pharmaceutical Robots

Kawasaki's medical robots, designed to meet the healthcare industry's strict guidelines for accuracy, consistency, and cleanliness, are perfect for streamlining operations in pharmaceutical and drug discovery environments.

MC series

The streamlined arm with a special surface treatment is chemical-resistant, allowing for sterilization by VHP.

{Applications}



Pharmaceutical

Features

- Hollow-arm structure and routing through base for clean, hygienic environment
- Special sealing material enables VHP sterilization (MC004V)
- Automation reduces risk of exposure to harmful chemicals and radiation.



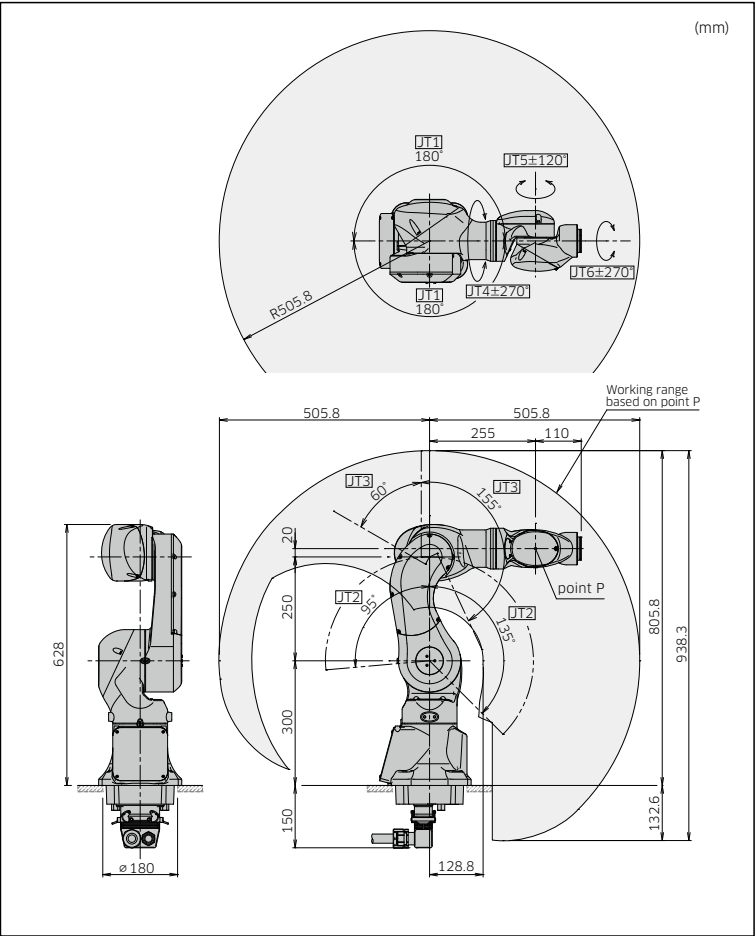
MC004V



MC004N

MC004N/MC004V		Standard Specifications
Type	Articulated robot	
Degree of freedom (axes)	6	
Payload (kg)	4	
Max. reach (mm)	505.8	
Position repeatability*1 (mm)	±0.05	
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+135 - -95
	Arm up-down (JT3)	+60 - -155
	Wrist swivel (JT4)	±270
	Wrist bend (JT5)	±120
	Wrist twist (JT6)	±270
Max. speed (°/s)	Arm rotation (JT1)	200
	Arm out-in (JT2)	180
	Arm up-down (JT3)	225
	Wrist swivel (JT4)	700
	Wrist bend (JT5)	500
	Wrist twist (JT6)	350
Allowable moment (N·m)	Wrist swivel (JT4)	8.5
	Wrist bend (JT5)	8.5
	Wrist twist (JT6)	4.0
Allowable moment of inertia (kg·m²)	Wrist swivel (JT4)	0.2
	Wrist bend (JT5)	0.2
	Wrist twist (JT6)	0.1
Mass (kg)	25	
Mounting	Floor, Ceiling	
Installation environment	Ambient temperature (°C)	10 - 35
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Degree of protection*2	Wrist : IP67 or equivalent Base axes : IP65 or equivalent	
Controller/Power requirements	F60/2.0kVA	

*1: Conforms to ISO9283
*2: The flange must be closed in case of using the built-in piping.



F60

Features

- Universal controller with common specifications for global use.
- Lightweight (8.3kg), reduced energy consumption, with enhanced integrated features.

Standard Specifications

Dimensions (mm)	W300×D320×H130	
Type	Open type indirect cooling system (IP20 or equivalent)	
Controlled (axes)	6	
Memory capacity (MB)	16	
I/O signals	External operation	Motor power off, Hold
	Input (Channels)	16
	Output (Channels)	16
Cable length	Teach pendant (m)	5
	Robot-controller (m)	5
Mass (kg)	8.3	
Power requirements		AC200 - AC230V ±10%, 50/60Hz, 10
		Max. 2.0kVA
Installation environment	Ambient temperature (°C)	0 - 45
	Relative humidity (%)	35 - 85 (No dew, nor frost allowed)
Teach pendant	TFT color LCD display with touch-panel, E-Stop switch, Teach lock switch, Enable switch	
Operation panel	E-stop switch, teach/repeat switch	



External view and dimensions

